

### EXAMINER'S AMENDMENT

1. An examiner Amendment to the record appears below. Should the changes and/or additions be unacceptable to the applicant, an amendment may be filed as provided by 37 C.F.R 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the Issue Fee.
2. Authorization for this Examiner's Amendment was given in a telephone interview with Mr. Edward B. Anderson (Registration No. 30,154) on Aug. Jan.12, 2010.
3. **Please amend the application as follows:**

### AMENDMENTS TO SPECIFICATION

Please replace the entire abstract with the new replacement abstract .

### ABSTRACT OF THE DISCLOSURE

An output system for rendering digital content received over a network that includes the Internet. The output system may include a television and an audio output device among others. The output system may provide security or authentication information and payment or subscription information to one or more servers over the Internet, the security or authentication information for enabling access of digital content to the output system. The output system further may provide one or more output content objects that may include a reference or a pointer to the digital content to the one or more servers over the Internet and the output system thereafter may receive the

referenced digital content over the Internet. The output system may include an output controller for decoding the digital content and for applying at least a digital imaging operation on the digital content, and may include a rendering engine for rendering the processed digital content.

### **AMENDMENTS TO THE CLAIMS**

This listing of claims reflects all claim amendments and replaces all prior versions, and listings, of claims in the application. Material to be inserted is in **bold and underline**, and material to be deleted is in ~~strikeout~~ or (if the deletion is of five or fewer consecutive characters or would be difficult to see) in double brackets [[ ]].

1 (Currently amended). A data output system for rendering digital content, the data output system including:

an information apparatus, included in the output system, with access to a network that includes the Internet,

an output device, included in the output system, for rendering the digital content, the information apparatus being physically connected directly to the output device, the direct structural connection between the information apparatus and the output device not including a network,

an output controller for decoding and processing the digital content for rendering,

a rendering engine, included in the output device, that outputs digital content in accordance with an output data acceptable to the output engine,

a memory or storage component, included in the output system, for storing at least part of the digital content, and for storing at least part of one or more ~~document~~ **output content** objects as encapsulations or references to the digital content,

**means for providing from the output system information related to security or authentication information to one or more servers over the network that includes the Internet, the security or authentication information related to enabling access of the digital content;**

**means for providing from the output system one or more information related to payment or subscription information to one or more servers over the network that includes the Internet;**

means for providing from the output system to the one or more servers over the network that includes the Internet, ~~a document~~ **an output content** object that includes at least part of a reference to the digital content or a pointer to the digital content, the ~~document~~ **output content** object being in accordance to an object or software component model suitable for sending to the one or more servers over the network that includes the Internet, and the providing of the ~~document~~ **output content** object from the output system to the one or more servers includes sending one or more messages that includes the ~~document~~ **output content** object from the output system to the one or more servers over the network that includes the Internet;

~~means for providing from the output system at least part of an output device object that includes a security or an authentication information to one or more servers over the network that includes the Internet, the security or the authentication information~~

~~for enabling access of the digital content with the reference or the pointer to the digital content included in the document object;~~

means for receiving the digital content from the one or more servers over the network that includes the Internet, at the output system, in response to providing from the output system the ~~document~~ output content object to the one or more servers over the network that includes the Internet, and the receiving of the digital content being after the sending of the output device object that includes the security or the authentication information from the output system to the one or more servers over the network that includes the Internet, the digital content corresponding to the ~~document~~ output content object sent from the output system over the network that includes the Internet;

means for generating, at the output ~~controller~~ system, [[an]] output data for rendering, the generating of the output data includes a decoding operation and a digital imaging operation on the digital content for rendering; and

means for delivering the output data related to the digital content from the output controller to the output engine for rendering of the digital content by the output engine.

2 (Currently amended). The output system of claim 1 further comprising means for storing at the memory storage included in the output system [[the]] one or more ~~output device~~ objects that include the security or the authentication information.

3 (Currently amended). The output system of claim 1 further including a wireless communication unit for wireless communication, and the output system further

comprising means for opening a wireless communication channel with the wireless communication unit for ~~accessing the one or more servers~~ **receiving at least part of the digital content via the over the** wireless communication channel ~~and over the network that includes the Internet.~~

4 (Previously presented). The output system of claim 1 in which the output device includes an audio output device.

5 (Currently amended). The output system of claim 1 further comprising providing from the output system to the one or more servers one or more of a quality of service information, [[a]] priority information, **identification information, and preference information**, ~~and a subscription service information~~, individually or in any combination thereof.

6 (Currently amended). The output system of claim 1 further comprising means for providing the at least part of ~~the output device~~ **an** object to the one or more servers as unsolicited information without a request therefor from the one or more servers.

7 (Currently amended). The output system of claim 1 further comprising means for sending from the output system a composite message [[.]] that includes at least one object, to the one or more servers over the Internet.

8 (Currently amended). The output system of claim 1 further comprising one or more software applications installed or installable at the output system, the one or more software applications facilitating at least partly the access of at least part of the digital content from the one or more servers over the network that includes the Internet means ~~for sending from the output system payment or subscription information to one or more servers over the Internet.~~

9 (Previously presented). The output system of claim 1 further comprising means for implementing at the output system job management functionalities with one or more of data output job queuing for rendering one or more digital content received by the output system.

10 (Currently amended). The output system of claim 1 further comprising means for providing a user interface for receiving user-implemented modifications of the output system or for receiving user options or user preferences related to rendering of the digital content.

11 (Previously presented). The output system of claim 1 further comprising means for implementing at the output system a security procedure that limits access to the rendering of the digital content at the output system.

12 (Previously presented). The output system of claim 11 in which the security procedure includes storing in a memory component an access control list specifying information related to an information apparatus or a user, individually or in any combination.

13 (Currently amended). The output system of claim 11 in which the security procedure includes one or more of a subscription indicator, a login, a password, an identity indicator, and an authentication, individually or in any combination.

14 (Currently amended). The output system of claim [[1]] 42 further comprising a wireless communication unit included in the output system for enabling wireless access by the output system to other wireless devices distinct from the output system ~~an output controller with means for communicating with the information apparatus.~~

15 (Previously presented). The output system of claim 1 further comprising an output controller that is externally connected to the output device.

16 (Currently amended). The output system of claim 1 further comprising an output controller, the output controller further including a wireless communication unit for receiving digital content and means for converting the digital content into a form acceptable to a printer controller or a display controller.

17 (Currently amended). The output system of claim [[1]] **42** further comprising **means for processing the digital content for rendering, the processing including one or more of a decoding operation, a decompression operation, a digital imaging operation, a color operation, decrypting information, an image enhancement operation, and a scaling operation, individually or in any combination** an output controller, ~~the output controller further including means for converting the digital content into a form compatible with an output engine.~~

18 (Previously presented). The output system of claim 1 in which the output data received by the output engine includes device dependent data acceptable to the output engine.

19 (Previously presented). The output system of claim 1 in which the output device includes a television.

20 (Previously presented). The output system of claim 1 in which the output device includes one of a display device or a projection device.

21 (Currently amended). The output system of claim 1 in which the output device **system** further includes means for performing at least partial raster **digital** image processing operations on **at least part of the digital content** output data.



22 (Currently amended). The output system of claim 21 in which the image processing operation includes one or more of an interpretation operation, a conversion operation, a rasterization operation, a scaling operation, a segmentation operation, color space transform operation, an image enhancement operation, a color correction operation, a halftoning operation, a compression operation, **a decryption operation**, and an encryption operation, individually or in any combination.

23 (Previously presented). The output system of claim 1 in which the output device includes a printer.

24 (Previously presented). The output system of claim 1 further including an interface with a touch sensitive display screen for interacting with a user.

25 (Currently amended). The output system of claim 1 in which the output medium is one or more of a substrate, a paper, a display screen, and a projection **device**, individually or in any combination.

26 (Currently amended). An output system for rendering digital content, the output system including,

an output device for rendering the digital content~~[[,]]; the information apparatus being physically connected directly to the output device, the direct structural connection between the information apparatus and the output device not including a network,~~

a rendering engine that outputs the digital content on a medium in accordance with an output data received at the output engine[.];

a memory storage that stores data for rendering[.];

an information apparatus included in the output system with access to at least part of the digital content over a network that includes the Internet, **the information apparatus being physically connected directly to the output device, the direct structural connection between the information apparatus and the output device not including a network,** the information apparatus having,

means for providing, ~~over the information apparatus,~~ from the output system a ~~document~~ **an output content** object that includes at least a reference to the digital content or a pointer to the digital content to one or more servers over the network that includes the Internet, the ~~document~~ **output content** object being in accordance to an object or software component model suitable for including in one or more messages for sending to the one or more servers over the network that includes the Internet,

means for providing, ~~over the information apparatus,~~ from the output system[. a] **information related to** payment or [a] subscription information to the one or more servers over the network that includes the Internet, the payment or the subscription information being related to accessing digital content,

**means for providing from the output system information related to security or authentication information to the one or more servers over the network that includes the Internet,**

means for receiving, ~~over the information apparatus,~~ the digital content from the network at the output system in response to sending the ~~document~~ **output content** object from the output system to the one or more servers over the network that includes the Internet, the digital content corresponding to the said ~~document~~ **output content** object sent from the output system, and the receiving of the digital content being related **at least in part** to the payment ~~[[and]]~~ **or** subscription information ~~[[send]]~~ **sent** from the output system; and

an output controller included in the output system having,

means for receiving, ~~at the output controller,~~ the digital content from the information apparatus,

means for **storing,** queuing or spooling **at least part of** the digital content at the output ~~controller~~ **system** for rendering,

means for generating, ~~at the output controller, an~~ output data corresponding to the digital content ~~for passing the output data to the output engine included in the output system,~~ the generating of the output data including a decoding operation or a decompression operation on the digital content, and

means for passing the **generated** output data from the output controller to the output engine for rendering.

27 (Previously presented). The output system of claim 26 in which the output controller further has means to store at least part of an output device object having one or more attributes relating to the output device or the output system.

28 (Previously presented). The output system of claim 26 further including an interface with a touch sensitive screen for interacting with a user.

29 (Previously presented). The output system of claim 26 in which the output data includes device dependent data in relation to the output device.

30 (Currently amended). The output system of claim 26 in which the output medium is one or more of a substrate, a paper, a display screen, and a projection device, individually or in any combination.

31 (Currently amended). The output system of claim 26 further comprising one or more software applications installed or installable at the output system, the one or more software applications facilitating at least partly the access of at least part of the digital content from the ~~means for providing from the output system at least part of an output device object that includes a security information to one or more servers over the network that includes the Internet.~~

32 (Currently amended). The output system of claim 26 further including a wireless communication unit for wireless communication, and the output system further comprising means for opening a wireless communication channel with the wireless

communication unit for accessing digital content ~~the one or more servers over the wireless communication channel to the network that includes the Internet.~~

33 (Previously presented). The output system of claim 26 in which the output device includes a printer.

34 (Currently amended). The output system of claim 26 further comprising means for sending to or receiving from the output system ~~a job object that includes a~~ status information or [[a]] confirmation information to or from the one or more servers over the network that includes the Internet.

35 (Previously presented). The output system of claim 26 further comprising means for posting or broadcasting at the output device or the output system its availability or service over a wired or wireless network so that the output device or output system can be discovered by a device distinct from the output device or the output system.

36 (Currently amended). The output system of claim 26 ~~in which the output controller~~ further includes means for providing a user interface for receiving one or more of user-implemented modifications, user options or user preferences related to rendering of the digital content, individually or in any combination ~~of the controller.~~

37 (Previously presented). The output system of claim 26 in which the output controller further includes means for implementing a security procedure that limits access to the rendering provided by the output device.

38 (Previously presented). The output system of claim 26 in which the output controller is included in the output device.

39 (Currently amended). The output system of claim [[26]] 42 in which the output controller is separate from the output device **system includes a display device or a projection device.**

40 (Currently amended). The output system of claim 26 in which the output controller further includes means for converting the digital content into a form compatible with the output engine **system includes a television.**

41 (Currently amended). The output system of claim 26 in which the output controller further includes means for performing at least partially, raster **digital** image processing operations on the **digital content that includes one or more of color processing, image enhancement, rasterization, scaling, segmentation, and decryption, individually or in any combination** output data.

42 (Currently amended). An output system for rendering digital content, the output system including,

an information apparatus, in the output system, with access to a network that includes the Internet,

an output device for rendering the digital content, the information apparatus being physically connected directly to the output device, the direct structural connection between the information apparatus and the output device not including a network,

a rendering engine that outputs on a medium in accordance with an output data received at the output engine,

an output controller ~~with one or more software applications installed or installable at the output controller~~ for processing the digital content for rendering,

**one or more software applications installed or installable for accessing one or more servers over the network that includes the Internet,**

~~a wireless communication unit for wireless communication,~~

a memory **or** storage **component** that stores data for rendering;

means for opening, at the output system **with the one or more software applications,** ~~a wireless communication channel with the wireless communication unit, the wireless communication channel for enabling the output system wireless access~~ **with the one or more servers over the network that includes the Internet** ~~either wireless devices distinct from the output system;~~

means for providing **with the one or more software applications,** from the output system to the one or more servers over the network that includes the Internet, at

least ~~[[an]]~~ identification information associated with the output device, the ~~[[or]]~~ output system, or the user of the output system;

means for providing with the one or more software applications from the output system information associated with security or authentication information to the one or more servers over the network that includes the Internet;

means for providing with the one or more software applications from the output system information associated with payment or subscription information to the one or more servers over the network that includes the Internet;

~~means for providing, over the information apparatus, from the output system a document~~ an output content object that includes at least a reference to the digital content, or a pointer to the digital content, to the one or more servers ~~[[via]]~~ over the ~~wireless~~ communication channel and over a network that includes the Internet, the ~~document~~ output content object being in accordance to an object or software component model suitable for sending as one or more messages ~~that includes the document object~~ to the network that includes the Internet;

means for receiving at the output system at least part of the digital content from the one or more servers over the network that includes the Internet in response to providing from the output system the ~~document~~ output content object to the one or more servers over the network that includes the Internet, the digital content being related to the ~~document~~ output content object sent from the output system over the network that include the Internet, and the receiving of at least part of the digital content having a relationship to the identification information, associated with the user, the



output device, or the output system, sent from the output system to the one or more servers;

means for processing, ~~[[at]]~~ with the output controller, ~~with the one or more software application,~~ the digital content into ~~[[an]]~~ output data suitable for rendering by the output engine; and

means for rendering the received digital content by the output engine at the output system.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee, and to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled " Comments on Statement of Reasons for Allowance".

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SARGON N. NANO whose telephone number is (571)272-4007. The examiner can normally be reached on M-F 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Hwang can be reached on (571) 272-4036. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sargon N Nano/

Examiner, Art Unit 2457

/Asad M Nawaz/

Primary Examiner, Art Unit 2455